

**I CLAIM:**

1. A method for forming a board, said method comprising:  
extruding two plastic materials,  
extruding a foamable material to have said foamable material  
5 disposed and arranged between said plastic materials, and  
merging said plastic materials and said foamable material  
together, to form the board having two outer layers formed by said  
plastic materials, and an intermediate layer formed by said foamable  
material.
- 10 2. The method as claimed in claim 1 further comprising  
injecting an air into said foamable material to expand said foamable  
material.
3. The method as claimed in claim 2, wherein said air is  
selectable from carbon dioxide, propane, or butane.
- 15 4. The method as claimed in claim 1 further comprising  
providing a first mold device having two outer flow passage to  
receive said plastic materials respectively, and an intermediate flow  
passage to receive said foamable material, in order to mate said  
plastic materials and said foamable material together.
- 20 5. The method as claimed in claim 4 further comprising  
providing a second mold device to receive said mated plastic  
materials and foamable material, and to form said mated plastic  
materials and foamable material into a planar member.
- 25 6. The method as claimed in claim 5 further comprising  
providing at least one inclined channel and a planar and thinner  
pathway to distribute said mated plastic materials and foamable  
material into the planar member.

7. The method as claimed in claim 1 further comprising rolling said plastic materials and said foamable material together to form the board.

8. The method as claimed in claim 1 further comprising cooling  
5 said plastic materials and said foamable material after merging said plastic materials and said foamable material together.

9. The method as claimed in claim 8 further comprising cutting said plastic materials and said foamable material after conducting said cooling process.

10 10. The method as claimed in claim 1 further comprising filling a foamable agent into said foamable material before conducting said extruding process of said foamable material.